

BA High rise

$$\text{Ground floor} = (102 \times 8) + (120 \times 24) = \$3696 \qquad (120 \times 24) = a$$

$$\text{Floor 15} = t_n = ar^{n-1} = 2880 \times 1.05^{14} = \$5702.20$$

$$\text{Total} = \$6518.2$$

①

$$\text{Floor 23} = t_n = ar^{n-1} = 2880 \times 1.05^{22} = \$8424.75$$

$$\text{Total} = \$9240.75$$

$$\text{Total of 15} = s_n = \frac{a(r-1^n)}{(r-1)} = \$62146.26 + (102 \times 8) \times 15 = \$74386.26$$

②

IA High rise

$$\text{Ground floor} = (65 \times 16) + (103 \times 28) = \$3924 \qquad (103 \times 28) = a$$

$$\text{Floor 15} = t_n = a + (n-1)d = 2884(15-1)3 = \$2926$$

$$\text{Total} = \$3966$$

$$\text{Floor 32} = t_n = a + (n-1)d = 2884(32-1)3 = \$2977$$

$$\text{Total} = \$4017$$

$$\text{Total of 15} = s_n = \frac{n}{2}(2a + (n-1)d) = \frac{15}{2}(5768 + (14 \times 3)) = \$43575 + ((65 \times 16)15) = \$59175$$

$$\text{Total of 20} = s_n = \frac{n}{2}(2a + (n-1)d) = \frac{20}{2}(5768 + (19 \times 3)) + ((65 \times 16)15) = \$73850$$